

## **Appendix B**

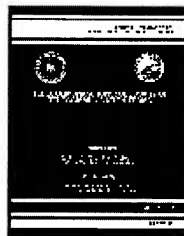
**(Federal Standard 1037C, published August 7, 1996 – Definition of "Duty Cycle")**



## Federal Standard 1037C

**Note:** The updated version of this standard (*Telecom Glossary 2000*) is completed. Click [here](#) for more information.

### Telecommunications: Glossary of Telecommunication Terms



Date of Publication: August 7, 1996

Use the [Search Engine](#).

# duty cycle

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**duty cycle:** 1. In an ideal pulse train, i.e. , one having rectangular pulses, the ratio of the pulse duration to the pulse period. (188) *Note:* For example, the duty cycle is 0.25 for a pulse train in which the pulse duration is 1  $\mu$ s and the pulse period is 4  $\mu$ s. 2. The ratio of (a) the sum of all pulse durations during a specified period of continuous operation to (b) the total specified period of operation. 3. In a continuously variable slope delta (CVSD) modulation converter, the mean proportion of binary "1" digits at the converter output in which each "1" indicates a run of a specified number of consecutive bits of the same polarity in the digital output signal. (188) 4. In a periodic phenomenon, the ratio of the duration of the phenomenon in a given period to the period. *Note:* In a piece of electrical equipment, e.g. , an electric motor, the period for which it may be operated without deleterious effects, e.g. , from overheating.

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